



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: AE3007A1 BYPASS RATIO: 4.8
 UNIQUE ID NUMBER: 6AL006 PRESSURE RATIO (π_{00}): 18.0
 COMBUSTOR: Type 2
 ENGINE TYPE: MTF RATED THRUST (F_{00}) (kN): 34.9

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NO _x	SMOKE NUMBER
D _p /F ₀₀ (g/kN) or SN	16.2	83.7	53.3	0.0
AS % OF ORIGINAL LIMIT	82.6	70.9	70.2	0.0
AS % OF CAEP/2 LIMIT (NO _x)			87.8	
AS % OF CAEP/4 LIMIT (NO _x)			90.3	
AS % OF CAEP/6 LIMIT (NO _x)			91.5	
AS % OF CAEP/8 LIMIT (NO _x)			97.9	

DATA STATUS

- PRE-REGULATION
 x CERTIFICATION
 - REVISED (SEE REMARKS)

TEST ENGINE STATUS

- NEWLY MANUFACTURED ENGINES
 x DEDICATED ENGINES TO PRODUCTION STANDARD
 - OTHER (SEE REMARKS)

EMISSIONS STATUS

x DATA CORRECTED TO REFERENCE
 (ANNEX 16 VOLUME II)

CURRENT ENGINE STATUS

(IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED)
 x OUT OF PRODUCTION (DATE: -)
 - OUT OF SERVICE (DATE: -)

MEASURED DATA

MODE	POWER SETTING (%F ₀₀)	TIME (minutes)	FUEL FLOW (kg/s)	EMISSIONS INDICES (g/kg)			SMOKE NUMBER
				HC	CO	NO _x	
TAKE-OFF	100	0.7	0.383	0.00	0.12	22.41	0.0
CLIMB OUT	85	2.2	0.318	0.00	0.01	19.58	0.0
APPROACH	30	4.0	0.113	0.18	1.36	7.20	0.0
IDLE	7	26.0	0.046	5.04	32.59	3.19	0.0
LTO TOTAL FUEL (kg) or EMISSIONS (g)			157	367	2383	1607	-
NUMBER OF ENGINES				1	1	1	1
NUMBER OF TESTS				3	3	3	3
AVERAGE D _p /F ₀₀ (g/kN) or AVERAGE SN (MAX)				10.5	68.2	46.0	0.0
SIGMA (D _p /F ₀₀ in g/kN, or SN)							
RANGE (D _p /F ₀₀ in g/kN, or SN)							

ACCESSORY LOADS

POWER EXTRACTION 0 (kW) AT - POWER SETTINGS
 STAGE BLEED 0 (% CORE FLOW) AT - POWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	99.6-99.7
TEMPERATURE (K)	297-301
ABS HUMIDITY (kg/kg)	0.0115-0.0141

FUEL

SPEC	Jet A
H/C	1.9
AROM (%)	16-20

MANUFACTURER: Rolls-Royce Corporation
 TEST ORGANIZATION: Rolls-Royce Corporation
 TEST LOCATION: Indianapolis, Indiana
 TEST DATES: 28/08/2002-29/08/2002

REMARKS

- For effectivity see Rolls-Royce Notice to Operators No. AE3007A-076
- Data in this form for AE3007A1 engines fitted with PAB fuel nozzles
- Results based on Rolls-Royce report EDR 19972

Compliance with Fuel Venting requirements: - ('x' if complies, 'PR' if pre-regulation, '-' if information is not available)